USER MANUAL

Thank you for purchasing this UPS. To safely operate this uninterruptible power supply system, please read and follow all instructions carefully. Please read this manual thoroughly before attempting to unpack, install, or operate UPS, and keep this manual for further reference.

IMPORTANT SAFETY INSTRUCTIONS

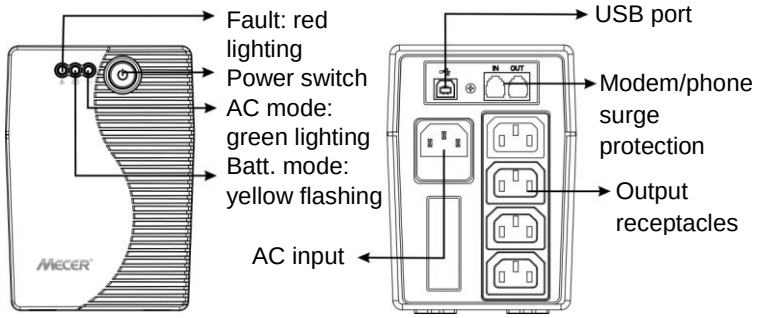
- This UPS utilizes voltages that may be hazardous. DO NOT attempt to disassemble the unit. The unit contains no user serviceable parts. Only factory service personnel may perform repairs.
- Internal battery voltage is 12VDC.
- Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in shock hazard as well as violate local electrical codes.
- In the event of an emergency, press the OFF button and disconnect the power cord from the AC power supply to properly disable the UPS.
- DO NOT allow liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
- This unit intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running water, or excessive humidity.
- DO NOT plug the UPS input into its own output.
- DO NOT attach a power strip or surge suppressor to the UPS.
- DO NOT attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS
- To reduce the risk of overheating the UPS, do not cover the UPS' cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat emitting appliances such as space heaters or furnaces.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
- DO NOT dispose of batteries in a fire as they may explode.
- DO NOT open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:

1) Remove watches, rings, or other metal objects from the hands.
2) Use tools with insulated handles.
3) Wear rubber gloves and boots.
4) DO NOT lay tools or metal parts on top of batteries.
5) Disconnect charging source prior to connecting or disconnecting batteries terminals.

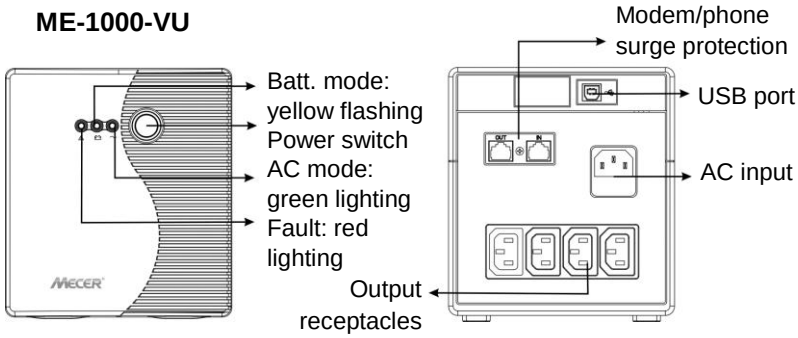
- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.
- When replacing batteries, replace with the same number and type of sealed lead-acid battery.
- This pluggable type A equipment with battery already installed by the supplier is operator installable and may be operated by laymen.
- During the installation of this equipment it should be assured that the sum of the leakage currents of the UPS and the connected loads does not exceed 3.5mA
- Attention, hazardous through electric shock. Also with disconnection of this unit from the mains, hazardous voltage still may be accessible through supply from battery. The battery supply should be therefore disconnected in the plus and minus pole at the connectors of the battery when maintenance or service work inside the UPS is necessary.
- The mains socket outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.

PRODUCT OVERVIEW

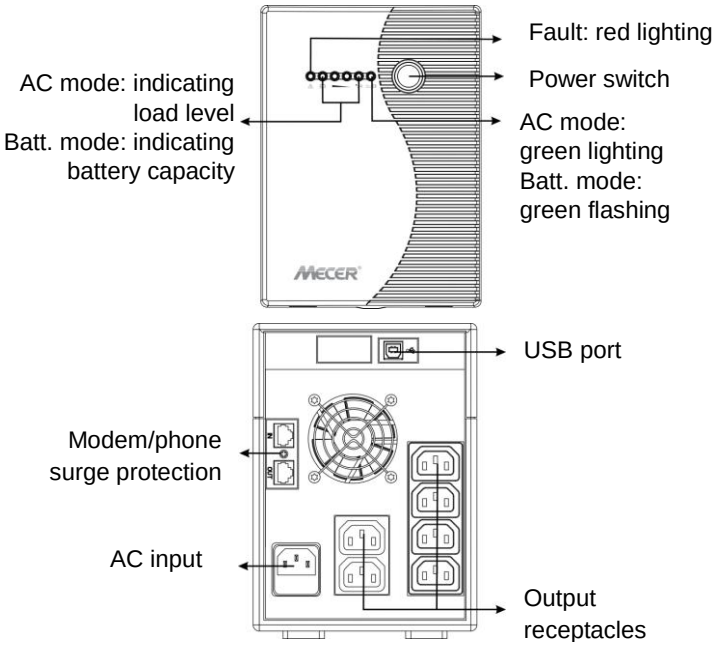
ME-650-VU/850-VU



ME-1000-VU



ME-2000-VU



ME-650-VU/850-VU
ME-1000-VU/2000-VU

USER MANUAL

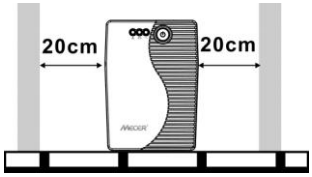
QUICK INSTALLATIONS & OPERATION

Inspection

Remove UPS from its package and inspect it for damage before installation. If any damage is found, re-pack and return the unit to the place of purchase.

Placement

Install the UPS in a protected area that is free of excessive dust and has adequate air flow. DO NOT operate the UPS where the temperature and humidity is outside the specific limits.



Connect to Utility & Charging

Plug in the AC input cord to the wall outlet. For the best results, suggest to charge the battery at least 4 hours before initial use. The unit automatically charges ts battery while connecting to the utility.

Connect the Loads

Plug in the loads to output receptacles on the rear panel of the UPS. Simply turn on the power switch of UPS unit, then devices connected to the UPS will be protected by the UPS.

CAUTION:
NEVER connect a laser printer or scanner to the UPS unit. This may cause the damage of the unit.

Connect Modem/Phone Line

Connect a single modem/phone line into surge-protected "IN" outlet on the rear panel of the UPS unit. Connect from "OUT" outlet to the computer with phone line cable.

Connect Communication Cable

To allow for unattended UPS shutdown/start-up and status monitoring, connect the communication cable one end to the USB port and the other to the communication port of your PC. With the monitoring software installed, you can schedule UPS shutdown / start-up and monitor UPS status through PC.

Turning On/Off the Unit

Turn on the UPS unit by pressing the power switch. Turn off the UPS unit by pressing again the power switch. You may check the front LED indicators for the status.

Cold Start Function

When the UPS is off and there is no power utility, it's still possible to cold start the UPS unit to power the loads.

Monitoring Software Setup

Please follow steps below to install the software:

1. Insert the included CD into CD-ROM drive and then follow the on-screen instructions. If there no screen shows when inserting the CD after 1 minute, please execute setup.exe for initiating software installation.
2. After computer restarts, the monitoring software will appear as an orange plug icon located in the system tray.

TROUBLE SHOOTING

Problem	Possible Cause	Solutions
No LED display on the front panel.	Battery voltage is too low	Charge the UPS unit up to 4 hours.
	Battery failure.	Replace with the same type of battery.
UPS always on battery mode	Power cord loose	Re-plug the power cord.
	Fuse is burned.	Replace the same type of fuse
	AC utility is too high or too low, or there is a blackout	Normal condition
During power failure, backup time is shorten.	Overload of the UPS.	Remove some noncritical load.
	Battery voltage is too low.	Charge battery 4 hours or more.
	Battery defect due to high temperature operation environment, or improper operation to battery.	Replace with the same type of battery.

SPECIFICATIONS

MODEL	ME-650-VU	ME-850-VU	ME-1000-VU	ME-2000-VU
INPUT				
Capacity	650VA / 360W	850VA / 480W	1000VA / 600W	2000VA / 1200W
Voltage	110/120 VAC or 220/230/240 VAC			
Voltage Range	81-145 VAC or 162-290 VAC			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	±10%			
Frequency Range (Batt. Mode)	50Hz or 60Hz ± 1 Hz			
Transfer Time	Typical 2-6 ms, 10 ms max.			
Waveform (Batt. Mode)	Simulated Sine Wave			
BATTERY				
Battery Type & Number	12 V/7 Ah x 1	12 V/9 Ah x 1	12 V/7 Ah x 2	12 V/9 Ah x 2
Typical Recharge Time	4-6 hours recover to 90% capacity			
ALARM				
Battery Mode	Sounding every 10 seconds			
Low Battery	Sounding every second			
Overload	Sounding every 0.5 second			
Fault	Continuously sounding			
PHYSICAL				
Dimension, DXWXH (mm)	287 x 100 x142		350 x 146 x 160	397 x 146 x 205
Net Weight (kgs)	4.25	4.9	8.0	11.5
ENVIRONMENT				
Humidity	0-90 % RH @ 0- 40°C (non-condensing)			
Noise Level	Less than 40dB			
INTERFACE				
USB Port	Windows2000/2003/XP/Vista/2008/7, Linux, Unix, and MAC			

* Product specifications are subject to change without further notice.